



Registration Standards Applicability List for Coordinated Functional Registration (CFR) JRO00048

(Formerly JRO Type 2)

Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Last Update 11/10/2009

Member Entities

Original CFR Effective Registration Date

NCR01278 - Municipal Electric Authority of Georgia	11/10/2009
NCR01320 - Southern Company Services, Inc. - Trans	11/10/2009



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: FAC-002-0

Requirements:

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- R2. The Planning Authority, Transmission Planner, Generator Owner, Transmission Owner, Load-Serving Entity, and Distribution Provider shall each retain its documentation (of its evaluation of the reliability impact of the new facilities and their connections)

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: FAC-014-1

Requirements:

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- R4. The Transmission Planner shall establish SOLs, including IROLs, for its Transmission Planning Area that are consistent with its Planning Authority's SOL Methodology.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R5. The Reliability Coordinator, Planning Authority and Transmission Planner shall each provide its SOLs and IROLs to those entities that have a reliability-related need for those limits and provide a written request that includes a schedule for delivery of t

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

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- R5.4. The Transmission Planner shall provide its SOLs (including the subset of SOLs that are IROLs) to its Planning Authority, Reliability Coordinators, Transmission Operators, and Transmission Service Providers that work within its Transmission Planning Area a

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: MOD-010-0

Requirements:

R1. The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-011-0_R1) shall provide appropriate equipment characteristics, system data, and existing and futur

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-011-0_R1) shall provide this steady-state modeling and simulation data to the Regional Reliability

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: MOD-012-0

Requirements:

R1. The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-013-0_R1) shall provide appropriate equipment characteristics and system data in compliance with th

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. The Transmission Owners, Transmission Planners, Generator Owners, and Resource Planners (specified in the data requirements and reporting procedures of MOD-013-0_R1) shall provide dynamics system modeling and simulation data to its Regional Reliability Or

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: MOD-018-0

Requirements:

R1. The Load-Serving Entity, Planning Authority, Transmission Planner and Resource Planner's report of actual and forecast demand data (reported on either an aggregated or dispersed basis) shall:

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.1. Indicate whether the demand data of nonmember entities within an area or Regional Reliability Organization are included, and

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.2. Address assumptions, methods, and the manner in which uncertainties are treated in the forecasts of aggregated peak demands and Net Energy for Load.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R1.3. Items (MOD-018-0_R 1.1) and (MOD-018-0_R 1.2) shall be addressed as described in the reporting procedures developed for Standard MOD-016-1_R 1.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R2. The Load-Serving Entity, Planning Authority, Transmission Planner, and Resource Planner shall each report data associated with Reliability Standard MOD-018-0_R1 to NERC, the Regional Reliability Organization, Load-Serving Entity, Planning Authority, and R

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: MOD-019-0.1

Requirements:

- R1. The Load-Serving Entity, Planning Authority, Transmission Planner, and Resource Planner shall each provide annually its forecasts of interruptible demands and Direct Control Load Management (DCLM) data for at least five years and up to ten years into the

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: MOD-020-0

Requirements:

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- R1. The Load-Serving Entity, Transmission Planner, and Resource Planner shall each make known its amount of interruptible demands and Direct Control Load Management (DCLM) to Transmission Operators, Balancing Authorities, and Reliability Coordinators on request.

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: MOD-021-0

Requirements:

R1. The Load-Serving Entity, Transmission Planner, and Resource Planner's forecasts shall each clearly document how the Demand and energy effects of DSM programs (such as conservation, time-of-use rates, interruptible Demands, and Direct Control Load Manageme

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R2. The Load-Serving Entity, Transmission Planner, and Resource Planner shall each include information detailing how Demand-Side Management measures are addressed in the forecasts of its Peak Demand and annual Net Energy for Load in the data reporting procedu

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia

R3. The Load-Serving Entity, Transmission Planner, and Resource Planner shall each make documentation on the treatment of its DSM programs available to NERC on request (within 30 calendar days).

Responsible Members:

NCR01278 Municipal Electric Authority of Georgia



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: NUC-001-1

Requirements:

R2. The Nuclear Plant Generator Operator and the applicable Transmission Entities shall have in effect one or more Agreements that include mutually agreed to NPIRs and document how the Nuclear Plant Generator Operator and the applicable Transmission Entities

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall incorporate the NPIRs into their planning analyses of the electric system and shall communicate the results of these analyses to the Nuclear Plant Ge

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4.1. Incorporate the NPIRs into their operating analyses of the electric system.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4.2. Operate the electric system to meet the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R4.3. Inform the Nuclear Plant Generator Operator when the ability to assess the operation of the electric system affecting NPIRs is lost.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R6. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities and the Nuclear Plant Generator Operator shall coordinate outages and maintenance activities which affect the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R8. Per the Agreements developed in accordance with this standard, the applicable Transmission Entities shall inform the Nuclear Plant Generator Operator of actual or proposed changes to electric system design, configuration, operations, limits, protection sy

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: NUC-001-1

Requirements:

R9. The Nuclear Plant Generator Operator and the applicable Transmission Entities shall include, as a minimum, the following elements within the agreement(s) identified in R2:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1. Administrative elements:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.1. Definitions of key terms used in the agreement.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.2. Names of the responsible entities, organizational relationships, and responsibilities related to the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.3. A requirement to review the agreement(s) at least every three years.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.1.4. A dispute resolution mechanism.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.2. Technical requirements and analysis:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.2.1. Identification of parameters, limits, configurations, and operating scenarios included in the NPIRs and, as applicable, procedures for providing any specific data not provided within the agreement.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.2.2. Identification of facilities, components, and configuration restrictions that are essential for meeting the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: NUC-001-1

Requirements:

R9.2.3. Types of planning and operational analyses performed specifically to support the NPIRs, including the frequency of studies and types of Contingencies and scenarios required.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3. Operations and maintenance coordination:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.1. Designation of ownership of electrical facilities at the interface between the electric system and the nuclear plant and responsibilities for operational control coordination and maintenance of these facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.2. Identification of any maintenance requirements for equipment not owned or controlled by the Nuclear Plant Generator Operator that are necessary to meet the NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.3. Coordination of testing, calibration and maintenance of on-site and off-site power supply systems and related components.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.4. Provisions to address mitigating actions needed to avoid violating NPIRs and to address periods when responsible Transmission Entity loses the ability to assess the capability of the electric system to meet the NPIRs. These provisions shall include respon

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.5. Provision to consider nuclear plant coping times required by the NPLRs and their relation to the coordination of grid and nuclear plant restoration following a nuclear plant loss of Off-site Power.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.3.6. Coordination of physical and cyber security protection of the Bulk Electric System at the nuclear plant interface to ensure each asset is covered under at least one entity's plan.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: NUC-001-1

Requirements:

R9.3.7. Coordination of the NPIRs with transmission system Special Protection Systems and underfrequency and undervoltage load shedding programs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4. Communications and training:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.1. Provisions for communications between the Nuclear Plant Generator Operator and Transmission Entities, including communications protocols, notification time requirements, and definitions of terms.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.2. Provisions for coordination during an off-normal or emergency event affecting the NPIRs, including the need to provide timely information explaining the event, an estimate of when the system will be returned to a normal state, and the actual time the syst

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.3. Provisions for coordinating investigations of causes of unplanned events affecting the NPIRs and developing solutions to minimize future risk of such events.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.4. Provisions for supplying information necessary to report to government agencies, as related to NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R9.4.5. Provisions for personnel training, as related to NPIRs.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-001-0.1

Requirements:

R1. The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission system is planned such that, with all transmission facilities in service and with normal (pre-contingency

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. Be supported by a current or past study and/or system simulation testing that addresses each of the following categories, showing system performance following Category A of Table 1 (no contingencies). The specific elements selected (from each of the follo

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. Cover critical system conditions and study years as deemed appropriate by the entity performing the study.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.2. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Have established normal (pre-contingency) operating procedures in place.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.5. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-001-0.1

Requirements:

R1.3.6. Be performed for selected demand levels over the range of forecast system demands.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Demonstrate that system performance meets Table 1 for Category A (no contingencies).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.4. Address any planned upgrades needed to meet the performance requirements of Category A.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. When system simulations indicate an inability of the systems to respond as prescribed in Reliability Standard TPL-001-0_R1, the Planning Authority and Transmission Planner shall each:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1. Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.1. Including a schedule for implementation.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.2. Including a discussion of expected required in-service dates of facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-001-0.1

Requirements:

R2.1.3. Consider lead times necessary to implement plans.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2. Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority and Transmission Planner shall each document the results of these reliability assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-002-0

Requirements:

R1. The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission system is planned such that the Network can be operated to supply projected customer demands and projects

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. Be supported by a current or past study and/or system simulation testing that addresses each of the following categories, showing system performance following Category B of Table 1 (single contingencies). The specific elements selected (from each of the f

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. Be performed and evaluated only for those Category B contingencies that would produce the more severe System results or impacts. The rationale for the contingencies selected for evaluation shall be available as supporting information. An explanation of

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.10. Include the effects of existing and planned protection systems, including any backup or redundant systems.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.11. Include the effects of existing and planned control devices.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.12. Include the planned (including maintenance) outage of any bulk electric equipment (including protection systems or their components) at those demand levels for which planned (including maintenance) outages are performed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-002-0

Requirements:

R1.3.2. Cover critical system conditions and study years as deemed appropriate by the responsible entity.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.5. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.6. Be performed and evaluated for selected demand levels over the range of forecast system Demands.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Demonstrate that system performance meets Category B contingencies.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.4. Address any planned upgrades needed to meet the performance requirements of Category B of Table I.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-002-0

Requirements:

R1.5. Consider all contingencies applicable to Category B.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. When System simulations indicate an inability of the systems to respond as prescribed in Reliability Standard TPL-002-0_R1, the Planning Authority and Transmission Planner shall each:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1. Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.1. Including a schedule for implementation.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.2. Including a discussion of expected required in-service dates of facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.3. Consider lead times necessary to implement plans.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2. Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority and Transmission Planner shall each document the results of its Reliability Assessments and corrective plans and shall annually provide the results to its respective Regional Reliability Organization(s), as required by the Regional

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-003-0

Requirements:

R1. The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission systems is planned such that the network can be operated to supply projected customer demands and project

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five) and longer-term (years six through ten) planning horizons.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. Be supported by a current or past study and/or system simulation testing that addresses each of the following categories, showing system performance following Category C of Table 1 (multiple contingencies). The specific elements selected (from each of th

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. Be performed and evaluated only for those Category C contingencies that would produce the more severe system results or impacts. The rationale for the contingencies selected for evaluation shall be available as supporting information. An explanation of w

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.10. Include the effects of existing and planned protection systems, including any backup or redundant systems.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.11. Include the effects of existing and planned control devices.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.12. Include the planned (including maintenance) outage of any bulk electric equipment (including protection systems or their components) at those Demand levels for which planned (including maintenance) outages are performed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-003-0

Requirements:

R1.3.2. Cover critical system conditions and study years as deemed appropriate by the responsible entity.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Be conducted beyond the five-year horizon only as needed to address identified marginal conditions that may have longer lead-time solutions.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.5. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.6. Be performed and evaluated for selected demand levels over the range of forecast system demands.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Demonstrate that System performance meets Table 1 for Category C contingencies.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. Include Reactive Power resources to ensure that adequate reactive resources are available to meet System performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.4. Address any planned upgrades needed to meet the performance requirements of Category C.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-003-0

Requirements:

R1.5. Consider all contingencies applicable to Category C.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. When system simulations indicate an inability of the systems to respond as prescribed in Reliability Standard TPL-003-0_R1, the Planning Authority and Transmission Planner shall each:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1. Provide a written summary of its plans to achieve the required system performance as described above throughout the planning horizon:

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.1. Including a schedule for implementation.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.2. Including a discussion of expected required in-service dates of facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.1.3. Consider lead times necessary to implement plans.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2.2. Review, in subsequent annual assessments, (where sufficient lead time exists), the continuing need for identified system facilities. Detailed implementation plans are not needed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R3. The Planning Authority and Transmission Planner shall each document the results of these Reliability Assessments and corrective plans and shall annually provide these to its respective NERC Regional Reliability Organization(s), as required by the Regional

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-004-0

Requirements:

R1. The Planning Authority and Transmission Planner shall each demonstrate through a valid assessment that its portion of the interconnected transmission system is evaluated for the risks and consequences of a number of each of the extreme contingencies that

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.1. Be made annually.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.2. Be conducted for near-term (years one through five).

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3. Be supported by a current or past study and/or system simulation testing that addresses each of the following categories, showing system performance following Category D contingencies of Table I. The specific elements selected (from within each of the fo

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.1. Be performed and evaluated only for those Category D contingencies that would produce the more severe system results or impacts. The rationale for the contingencies selected for evaluation shall be available as supporting information. An explanation of

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.2. Cover critical system conditions and study years as deemed appropriate by the responsible entity.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.3. Be conducted annually unless changes to system conditions do not warrant such analyses.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.4. Have all projected firm transfers modeled.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans



Registration Status as of 1/26/2012

Applicable Regional Entity: SERC

Applicable Function: TP

Standard: TPL-004-0

Requirements:

R1.3.5. Include existing and planned facilities.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.6. Include Reactive Power resources to ensure that adequate reactive resources are available to meet system performance.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.7. Include the effects of existing and planned protection systems, including any backup or redundant systems.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.8. Include the effects of existing and planned control devices.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.3.9. Include the planned (including maintenance) outage of any bulk electric equipment (including protection systems or their components) at those demand levels for which planned (including maintenance) outages are performed.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R1.4. Consider all contingencies applicable to Category D.

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans

R2. The Planning Authority and Transmission Planner shall each document the results of its reliability assessments and shall annually provide the results to its entities' respective NERC Regional Reliability Organization(s), as required by the Regional Reliab

Responsible Members:

NCR01320 Southern Company Services, Inc. - Trans